

Utility Patent Application

CONFIDENTIAL INFORMATION

5 Patent Application based on: Docket No. 03-1283
Inventor: Ronald A. Johnson
10 Attorney: John D. Gugliotta, P.E., Esq.

VENTILATED MASK FOR OUTDOOR USE

RELATED APPLICATIONS

15 The present invention contains subject matter that was first described in
Disclosure Document Registration 524,109 filed on January 06, 2003 under 35
U.S.C. §122 and 37 C.F.R. §1.14. As such, it is respectfully requested that said
Disclosure Document remain a permanent part of the file history of the present
application and be relied upon during the pending prosecution, and for any other
20 matters that may arise.

The present invention claims benefit of U.S. Provisional Application
60/494,414 filed on August 13, 2003 (Filing Receipt not yet received).

BACKGROUND OF THE INVENTION

1. Field of the Invention

25 The present invention relates generally to ventilated face guard devices

and, more particularly, to a modular, adjustable "half helmet" design for such a face guard.

2. Description of the Related Art

5 As is well known in the art, a When participating in outdoor activities such as jogging, bike riding, walking, or just plain sitting on the porch, nothing puts a damper on things like the influx of mosquitos, moths, flies and other flying insects. Area foggers, bug lights, candles and the like provide some relief, but they are effective in one specific area only and do nothing for the person who
10 moves around. If an insect repellent is used, they should not be used around the face, eyes, and mouth, and even if they were, they do not stop the errant insect from flying into one's mouth or eyes. Additionally, many activities such as bike riding, motorcycle riding, and the like, subject the participant to flying debris, dirt and the like which can hit the participant in the face.

15 Consequently, a need exists a need for a means by which people can be protected from insects, dirt, dust and flying debris, while participating in outdoor activities.

SUMMARY OF THE INVENTION

20 It is therefore an object of the present invention to provide an improved ventilated face guard device.

It is a feature of the present invention to provide an improved ventilated face guard devices that comprises a modular, adjustable "half helmet" design for such a face guard.

Briefly described according to one embodiment of the present invention, a ventilated mask for outdoor use is a face mask for outdoor use to protect the wearer against insects and flying debris. The invention covers the user's nose, mouth and cheek area, and has a removable visor to provide protection for the eyes as well. The invention is intended for use by hunters, joggers, bikers or anyone who requires face protection from foreign flying objects, such as insects, dirt or dust. The invention also provides for the use of a snap in filter for additional protection against dust or other airborne irritants. It is held in place on the user's head by a pair of adjustable elastic straps. Finally, a hinged opening is provided in the mask area by the user's mouth to allow the insertion of game calling devices, drink bottles, straws, and the like, without requiring the user to remove the mask.

The use of the ventilated mask for outdoor use provides facial protection for users against insects and airborne debris in a manner, which is quick, easy and effective.

In accordance with a preferred embodiment, a protective face mask for outdoor activities protects face against insects, dirt, and other airborne debris and contaminants

An advantage of the present invention is the incorporation of a mask area that protects nose, mouth and cheeks.

Further, the present invention can be used with replaceable filters for trapping of finer materials such as pollen, dust, and the like.

5

BRIEF DESCRIPTION OF THE DRAWINGS

The advantages and features of the present invention will become better understood with reference to the following more detailed description and claims taken in conjunction with the accompanying drawings, in which like elements are identified with like symbols, and in which:

10

FIG. 1 is an exploded perspective view of a ventilated mask for outdoor use according to the preferred embodiment of the present invention;

FIG. 2 is a front elevation view thereof;

FIG. 3 is a rear elevation view thereof; and

15

FIG. 4 is perspective view of an assembly illustrating the connectivity of an externally supported oxygen deliver means to the ventilated mask.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

The best mode for carrying out the invention is presented in terms of its preferred embodiment, herein depicted within the Figures 1 - 4.

20

1. Detailed Description of the Figures

Referring now to **FIG. 1-4**, a ventilated mask for outdoor use **10** is shown, according to the present invention, an includes an upper visor **12**, preferably constructed from plastic or another similar material, detachably affixed to a lower mask portion **14**. It is anticipated that when the upper visor **12** is attached to the lower mask portion **14** the ventilated mask for outdoor use **10** together form a modular, adjustable "half helmet" design that functions as an air filter, a sun visor, and a face guard.

The upper visor **12** forms a visor frame **16** forming a pair of laterally spaced lens openings **18** separated by a bridge member **20**. The bridge member **20** forms at least one ventilation aperture **22** for providing fluid communication between the space behind the visor and the outside atmosphere. Each lense opening **18** supports a clear lens element **24**. It is anticipated that each lens **24** is formed of a clear, impact resistant material, and can include various features as would be available with eyeglasses, sunglasses, or visors including, but not limited to, polarization coatings, UV reduction, optical corrective lens, color filters, or the like. The lower frame member **16b** further forms a connection means to connect physically with the lower mask portion **14**, described in greater detail below.

The lower mask portion **14** is formed of a semi-pliable and form fitting outer frame **30**, anticipated as being reinforced with a metal wire or similar semi-rigid structure. The outer frame **30** circumscribes a ventillation area **32** that is

covered by a filter medium. The filter medium is washable or replaceable, allowing for the modular replacement of filter medium of varying and differing filtering capabilities, depending upon the particular need of the user.

Formed within the lower portion of the ventilation area **32** is an inlet
5 aperture **36** covered from outside by a hinged cover **38**. The cover **38** is coupled to and depending from the aperture **36**.

2. Operation of the Preferred Embodiment

To use the present invention, the invention covers the user's nose, mouth
10 and cheek area, and has a removable visor to provide protection for the eyes as well. The invention is intended for use by hunters, joggers, bikers or anyone who requires face protection from foreign flying objects, such as insects, dirt or dust. The invention also provides for the use of a snap in filter for additional protection against dust or other airborne irritants. It is held in place on the user's head by a
15 pair of adjustable elastic straps. Finally, a hinged opening is provided in the mask area by the user's mouth to allow the insertion of game calling devices, drink bottles, straws, and the like, without requiring the user to remove the mask.

The foregoing descriptions of specific embodiments of the present invention have been presented for purposes of illustration and description. They are not
20 intended to be exhaustive or to limit the invention to the precise forms disclosed, and obviously many modifications and variations are possible in light of the

above teaching. The embodiments were chosen and described in order to best explain the principles of the invention and its practical application, to thereby enable others skilled in the art to best utilize the invention and various embodiments with various modifications as are suited to the particular use contemplated. It is intended that the scope of the invention be defined by the Claims appended hereto and their equivalents. Therefore, the scope of the invention is to be limited only by the following claims.

5